

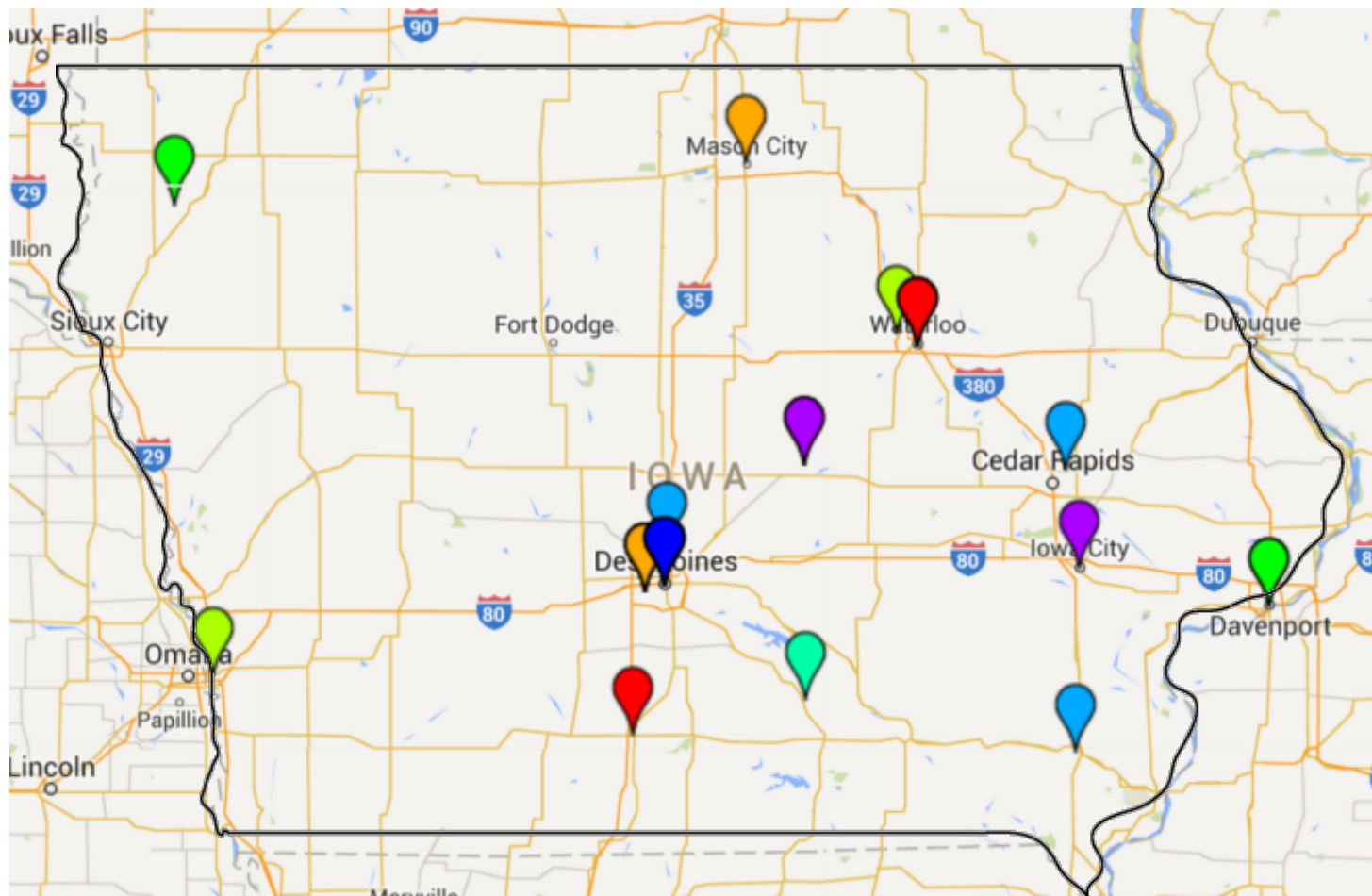


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## STEM Support of Arts and Culture

“Paving the way for enriched integration of Arts and STEM to provide enhanced learning experiences and

# STEM & Arts Working Group



Steven Triplett, David Barajas, Paul Gibbins, Leon Kuehner,  
Sarah Derry and Val Ruff

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# Mission Statement

“Paving the way for enriched integration of Arts and STEM to provide enhanced learning experiences and economic opportunities for Iowans.”

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## Key Issues:

Awareness

Economic Development and Impact

Educational Best Practice

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# Recommendations for Action

- Adopt STEM Seal of Approval for Arts and Culture integration
- Add Arts integration criteria in the Scale-Up program rubric
- Support the promotion of arts, culture, and STEM integration exemplars through council resources.



“ I am a strong advocate of both STEM education and STEAM education in the twenty first century. The study of the arts, music, theater and culture are keys to bringing creativity and innovation as a partner to science, technology, engineering and mathematics. STEM and STEAM are not mutually exclusive, they are inseparable partners to the future success of both our educational system and our economic development and life success.”

William N. Ruud, Ph.D.  
President  
The University of Northern Iowa

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## STEM SEAL OF APPROVAL RUBRIC

(Insert after criterion 7: Alignment with Council's definition of STEM)

### 8. Integration of STEM, Arts, and Culture

Integration of STEM, Arts, and Culture enhances the interdisciplinary approach to learning in our definition of STEM.

Seal Ready	Promising	Not Ready
Explicitly demonstrates how participants integrate Arts, Culture, and STEM within program/event execution	Explicitly aims to integrate Arts, Culture, and STEM within the program/event (Arts, Culture, or STEM feels like an add on, not fully integrated)	Program/event makes no clear attempt to integrate Arts, Culture, and STEM



## SCALE-UP SERVICE PROVIDER PROPOSAL RUBRIC (Iowa Specific Rubric)

(Insert after criterion A: 21<sup>st</sup> Century Learning Skills)

### B. Integration of STEM, Arts, and Culture

Accomplished (4-5)	Developing (2-3)	Undeveloped (0-1)
Project explicitly demonstrates how students integrate Arts, Culture, and STEM within the learning process.	Project explicitly aims to integrate Arts, Culture, and STEM within the learning process. (Arts, Culture, or STEM appears as an add on, not fully integrated)	Project makes no clear attempt to integrate Arts, Culture, and STEM.

# Thank You

David Barajas

Sarah Derry

Paul Gibbins

Leon Kuehner

Val Ruff

Steven Triplett

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